

Watershed Management Checklist for Development Plan Review

Floodplain and Stormwater Information

	YES	NO
Site Location		
Location of development in a Watershed Master Plan Basin	<input type="checkbox"/>	<input type="checkbox"/>
Location of development in a “New Growth Area” (as defined by the flood standards)	<input type="checkbox"/>	<input type="checkbox"/>
General Drainage		
Area of development contains a stream which drains more than 150 acres or has a defined bed and bank	<input type="checkbox"/>	<input type="checkbox"/>
All Sumps in development have a dedicated overland flow path for the 100 year storm event.	<input type="checkbox"/>	<input type="checkbox"/>
Flow direction arrows are shown on lot lines with less than a 2% slope	<input type="checkbox"/>	<input type="checkbox"/>
Detention		
Drainage areas for detention calculations are shown on the development plan	<input type="checkbox"/>	<input type="checkbox"/>
Curve number calculations are shown for each sub area	<input type="checkbox"/>	<input type="checkbox"/>
Time of concentration calculations are shown for each sub area	<input type="checkbox"/>	<input type="checkbox"/>
Pre-development and Post-development 2, 10, and 100 year stormwater flows are shown for the development	<input type="checkbox"/>	<input type="checkbox"/>
Post-development stormwater flow rates are not greater than pre-development stormwater flow rates	<input type="checkbox"/>	<input type="checkbox"/>
A detail of the outlet structure is included	<input type="checkbox"/>	<input type="checkbox"/>
Dry detention areas have a minimum 2% slope along the bottom of the pond.	<input type="checkbox"/>	<input type="checkbox"/>
Detention embankments have 4:1 slope or flatter	<input type="checkbox"/>	<input type="checkbox"/>
Detention embankments have a minimum 14 foot top width	<input type="checkbox"/>	<input type="checkbox"/>
Detention areas have maintenance access	<input type="checkbox"/>	<input type="checkbox"/>
All flow that by-passes the detention area has been accounted for in the detention calculations	<input type="checkbox"/>	<input type="checkbox"/>
Stormwater Pipe System		
Drainage areas are shown for the preliminary pipe sizing calculations	<input type="checkbox"/>	<input type="checkbox"/>
Appropriate coefficients are assigned to pipe sizing drainage areas	<input type="checkbox"/>	<input type="checkbox"/>
Appropriate design storm (5 or 10 year) was used to size the pipe system	<input type="checkbox"/>	<input type="checkbox"/>
The 100 year storm calculations are included to show that the 100 year storm is contained within the public ROW.	<input type="checkbox"/>	<input type="checkbox"/>
If connecting to an existing pipe system an appropriate investigation was done to determine the capacity of the existing system.	<input type="checkbox"/>	<input type="checkbox"/>
The 100 year flow is routed thru the detention area or over detention is provided for flows that by-pass the detention area.	<input type="checkbox"/>	<input type="checkbox"/>
Outlets are placed in channels or swales that are adequate for accepting the design discharge	<input type="checkbox"/>	<input type="checkbox"/>

	YES	NO
Minimum Opening Elevations		
Minimum opening elevations above the 100 year storm elevation are shown for all lots adjacent to detention areas, streams, swales, and/or overland flow paths.	<input type="checkbox"/>	<input type="checkbox"/>
Minimum Flood Corridors		
Easement dedicated for all streams which drain more than 150 acres or have a defined bed and bank (except for corridors in the FEMA floodplain in "Existing Urban Area"	<input type="checkbox"/>	<input type="checkbox"/>
Sequencing documentation provided for encroachments into minimum flood corridors	<input type="checkbox"/>	<input type="checkbox"/>
Existing Urban Area Floodplain/Floodprone Areas		
FEMA floodplain and/or floodprone areas are shown on the grading and drainage plan and the site plan.	<input type="checkbox"/>	<input type="checkbox"/>
FEMA floodway shown on the grading and drainage plan	<input type="checkbox"/>	<input type="checkbox"/>
FEMA cross sections are shown on grading and drainage plan	<input type="checkbox"/>	<input type="checkbox"/>
Lowest finished floor elevations above the 100 year flood elevation are shown for lots in the 100 year floodplain	<input type="checkbox"/>	<input type="checkbox"/>
New Growth Area Floodplain		
FEMA floodplain and/or floodprone areas are shown on the grading and drainage plan.	<input type="checkbox"/>	<input type="checkbox"/>
FEMA floodway shown on the grading and drainage plan	<input type="checkbox"/>	<input type="checkbox"/>
FEMA cross sections are shown on grading and drainage plan	<input type="checkbox"/>	<input type="checkbox"/>
Lowest finished floor elevations are given for lots in the 100 year floodplain	<input type="checkbox"/>	<input type="checkbox"/>
Areas and amounts of compensatory storage are shown on the plan.	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic analysis showing no net rise included with the drainage study	<input type="checkbox"/>	<input type="checkbox"/>
If within a master planned basin, No Net Rise for the 2, 10 and 100 year storm events.		
All information required by Sec. 10.5 of the Flood Design Criteria are provided.	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic analysis with sequencing approach included in the drainage study for all stream crossing structures	<input type="checkbox"/>	<input type="checkbox"/>
Appropriate mitigation shown for rise caused by stream crossing structures	<input type="checkbox"/>	<input type="checkbox"/>